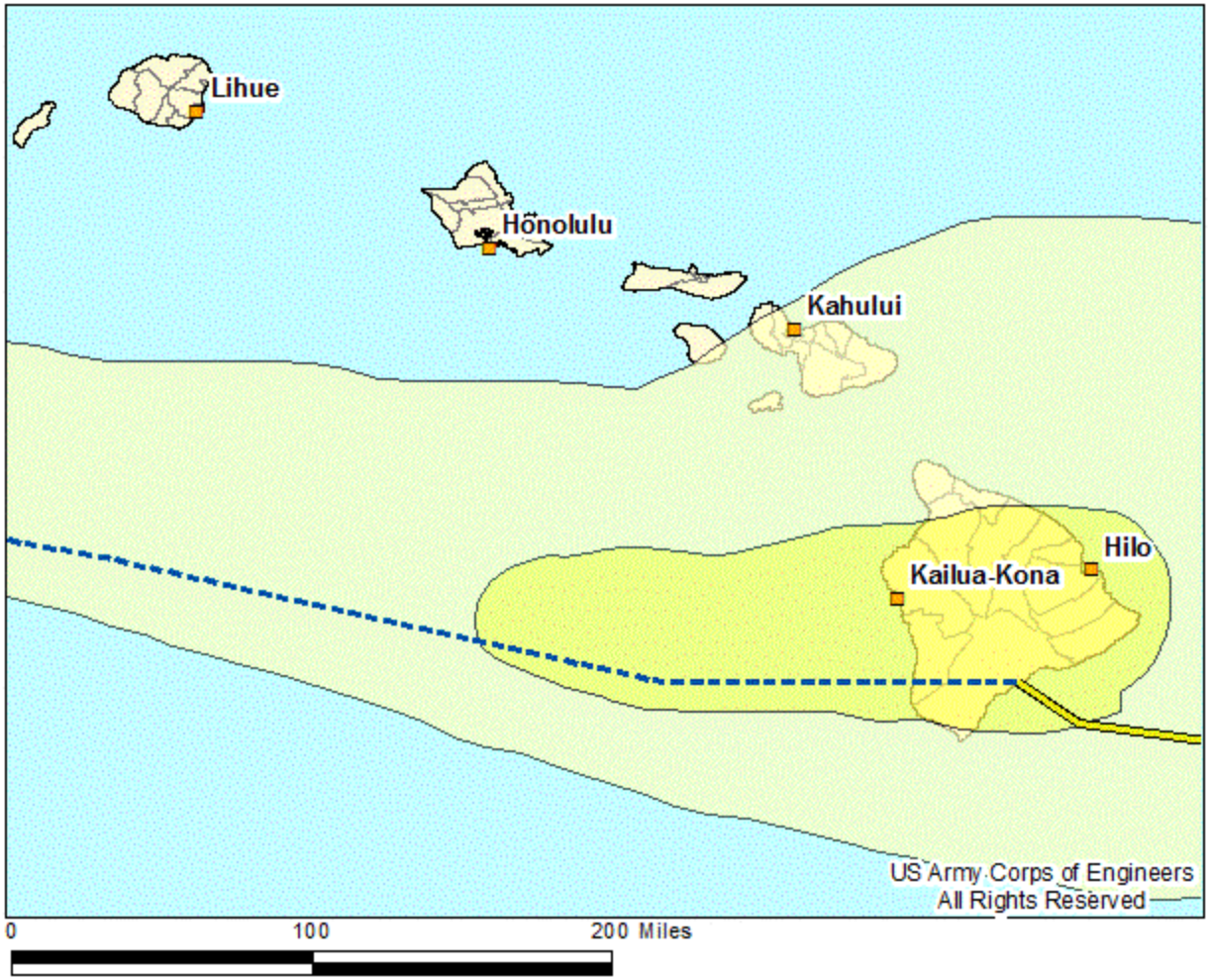
Hurricane Iselle Projected Damage Areas

Landfall Has Occurred

US Army Corps of Engineers

For Planning Purposes Only!



Post Landfall Projected Damage Areas

This model is based on a Category 1 storm making landfall Near Hilo, HI.

Forecast Track
Historic Track

Projected Damage Areas

- CAT 0-type damage
- CAT 1-type damage
- CAT 2-type damage
- CAT 3-type damage
- CAT 4-type damage
- CAT 5-type damage

Information provided on this page displays a projected or actual Category 1 storm making landfall Near Hilo, HI. These projections are based on information from the NHC (0800 EDT 08/08/2014) forecast and extrapolated by LRL staff to represent a landfall condition that has either occurred or may occur in the near future.

* Details about this model may be obtained at
http://www.usace.army.mil/Missions/EmergencyOperations/DisasterImpactModels.aspx
or contact the USACE Modeling Team at dll-ceiwr-esf3@usace.army.mil

Hurricane Iselle Projected Damage Areas

Generated By:
CAM, USACE Modeling Team
1130 EDT 08/08/2014

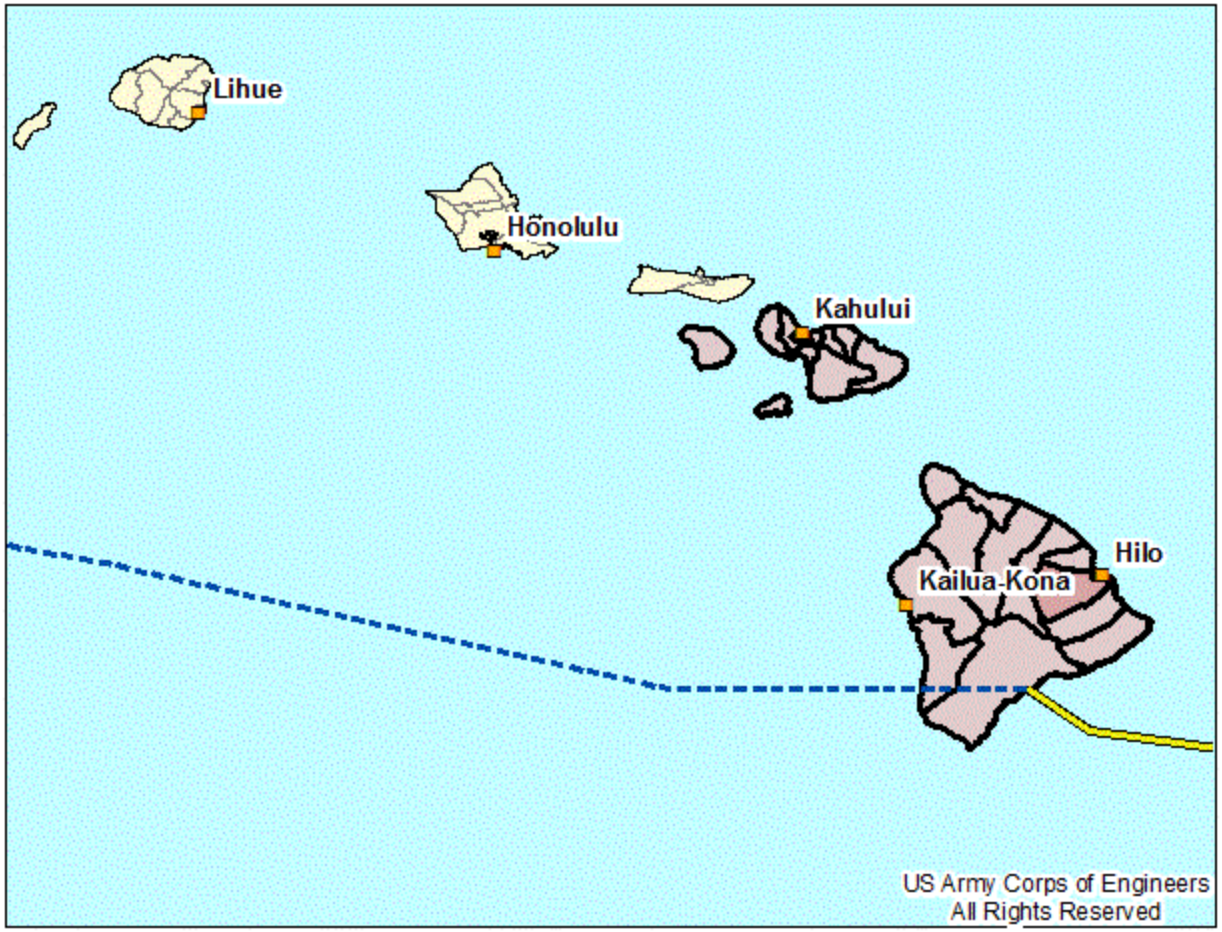
Sources:
HURREVAC
SimSuite

US Army Corps of Engineers

Hurricane Iselle Debris Model

Landfall Has Occurred

For Planning Purposes Only!



Post Landfall Debris Model Results

HAWAII - 590,000 Yards

Model results per Geographic Unit on following page

This model is based on a Category 1 storm making landfall Near Hilo, HI.

Forecast Track

Historic Track

Debris

- < 100,000 cubic yards
- 100,000 - 249,999 cubic yards
- 250,000 - 499,999 cubic yards
- 500,000 - 999,999 cubic yards
- >1,000,000 cubic yards

Information provided on this page displays a Category 1 storm making landfall Near Hilo, HI. These projections are based on information from the NHC (0800 EDT 08/08/2014) forecast. The amount of debris forecasted is possible total volume, not necessarily the volume that may need to be removed with Federal funds, but does not include volume that may be covered by private insurance. Debris volume may include storm surge generated debris.

*Details about this model may be obtained at
http://www.usace.army.mil/Missions/EmergencyOperations/DisasterImpactModels.aspx
or contact the USACE Modeling Team at dll-ceiwr-esf3@usace.army.mil

Hurricane Iselle Debris Model

Generated By:
CAM, USACE Modeling Team
@ 1130 EDT 08/08/2014

Sources:
HURREVAC
SimSuite

US Army Corps of Engineers

Hurricane Iselle Debris Model

Landfall Has Occurred

For Planning Purposes Only!

Island	Yards per Island	Geographic Unit	Yards per Geographic Unit
HAWAII		HAMAKUA - NORTH	6,000
		HAMAKUA - SOUTH	7,000
		HANA	2,000
		KAU	20,000
		LAHAINA	12,000
		LANAI	< 1,000
		MAKAWAO - NORTHEAST	9,000
		MAKAWAO - NORTHWEST	16,000
		MAKAWAO - SOUTH	10,000
		NORTH HILO	6,000
		NORTH KOHALA	5,000
		NORTH KONA	99,000
		PUNA - NORTH	71,000
		PUNA - SOUTH	28,000
		SOUTH HILO - 1	157,000
		SOUTH HILO - 2	16,000
		SOUTH KOHALA	35,000
		SOUTH KONA	28,000
		WAILUKU - 1	24,000
		WAILUKU - 2	< 1,000
		WAILUKU - 3	< 1,000
		WAILUKU - 4	18,000
		WAILUKU - 5	18,000
		WAILUKU - 6	3,000
HAWAII	590,000		

The amount of debris forecasted is possible total volume, not necessarily the volume that may need to be removed with Federal funds, but does not include volume that may be covered by private insurance. Debris volume may include storm surge generated debris.

Details about this model may be obtained at
http://www.usace.army.mil/Missions/EmergencyOperations/DisasterImpactModels.aspx
or contact the USACE Modeling Team at dll-ceiwr-esf3@usace.army.mil

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Hurricane Iselle Debris Model

Generated By:
CAM, USACE Modeling Team
@ 1130 EDT 08/08/2014

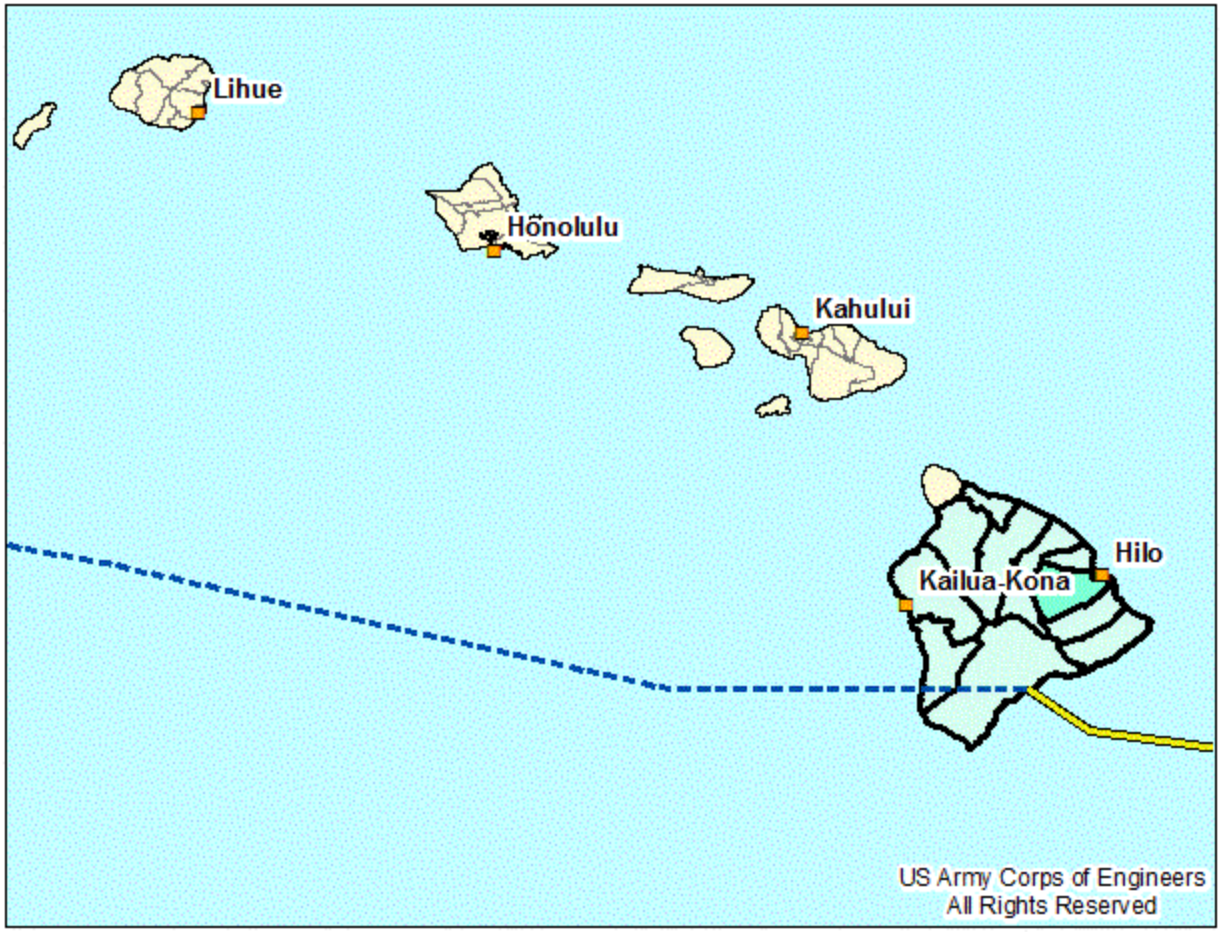
Sources:
HURREVAC
SimSuite

US Army Corps of Engineers

Hurricane Iselle Commodities Model

Landfall Has Occurred

For Planning Purposes Only!



Post Landfall Water Model Results

Day One / Day Two / Day Three
HAWAII - 20 Truckloads

Model results per Geographic Unit on following page

This model is based on a Category 1 storm making landfall Near Hilo, HI.

Forecast Track
Historic Track

Commodities

- < 5 Trucks Each
- 5 - 10 Trucks Each
- 11 - 20 Trucks Each
- 21 - 40 Trucks Each
- > 40 Trucks Each

Information provided on this page displays a Category 1 storm making landfall Near Hilo, HI. These projections are based on information from the NHC ***(0800 EDT 08/08/2014)*** forecast. The amount of commodities forecasted is based on Mission Guide Book requirements and SME input. The graphic represents daily needs with a ramp-up in the distribution system – three days for Points of Distribution (PODs) to be fully in place and operational. Volume shown is for each commodity – water and ice. Commodity need may be supplied by multiple agencies and/or sources.

* Details about this model may be obtained at
http://www.usace.army.mil/Missions/EmergencyOperations/DisasterImpactModels.aspx
or contact the USACE Modeling Team at dll-ceiwr-esf3@usace.army.mil

Hurricane Iselle Commodities Model	
Generated By: CAM, USACE Modeling Team @ 1130 EDT 08/08/2014	
Sources: HURREVAC SimSuite	Page 4 of 23

US Army Corps of Engineers

Hurricane Iselle Commodities Model

Landfall Has Occurred

For Planning Purposes Only!

Island	Truckloads per Island	Geographic Unit	Truckloads per Geographic Unit
HAWAII		HAMAKUA - NORTH	1
		HAMAKUA - SOUTH	1
		KAU	1
		NORTH HILO	1
		NORTH KONA	3
		PUNA - NORTH	3
		PUNA - SOUTH	1
		SOUTH HILO - 1	5
		SOUTH HILO - 2	1
		SOUTH KOHALA	2
		SOUTH KONA	1
HAWAII	20		

Source: US Army Corps of Engineers, All Rights Reserved

The amount of commodities forecasted is based on Mission Guide Book requirements and SME input and the above table indicates suggested daily needs based on full deployment of a commodities distribution system. Volume shown is for each commodity – water and ice. Commodity need may be supplied by multiple agencies and/or sources.

* Details about this model may be obtained at http://www.usace.army.mil/Missions/EmergencyOperations/DisasterImpactModels.aspx or contact the USACE Modeling Team at dll-cewr-esf3@usace.army.mil

Hurricane Iselle Commodities Model

Generated By:
CAM, USACE Modeling Team
1130 EDT 08/08/2014

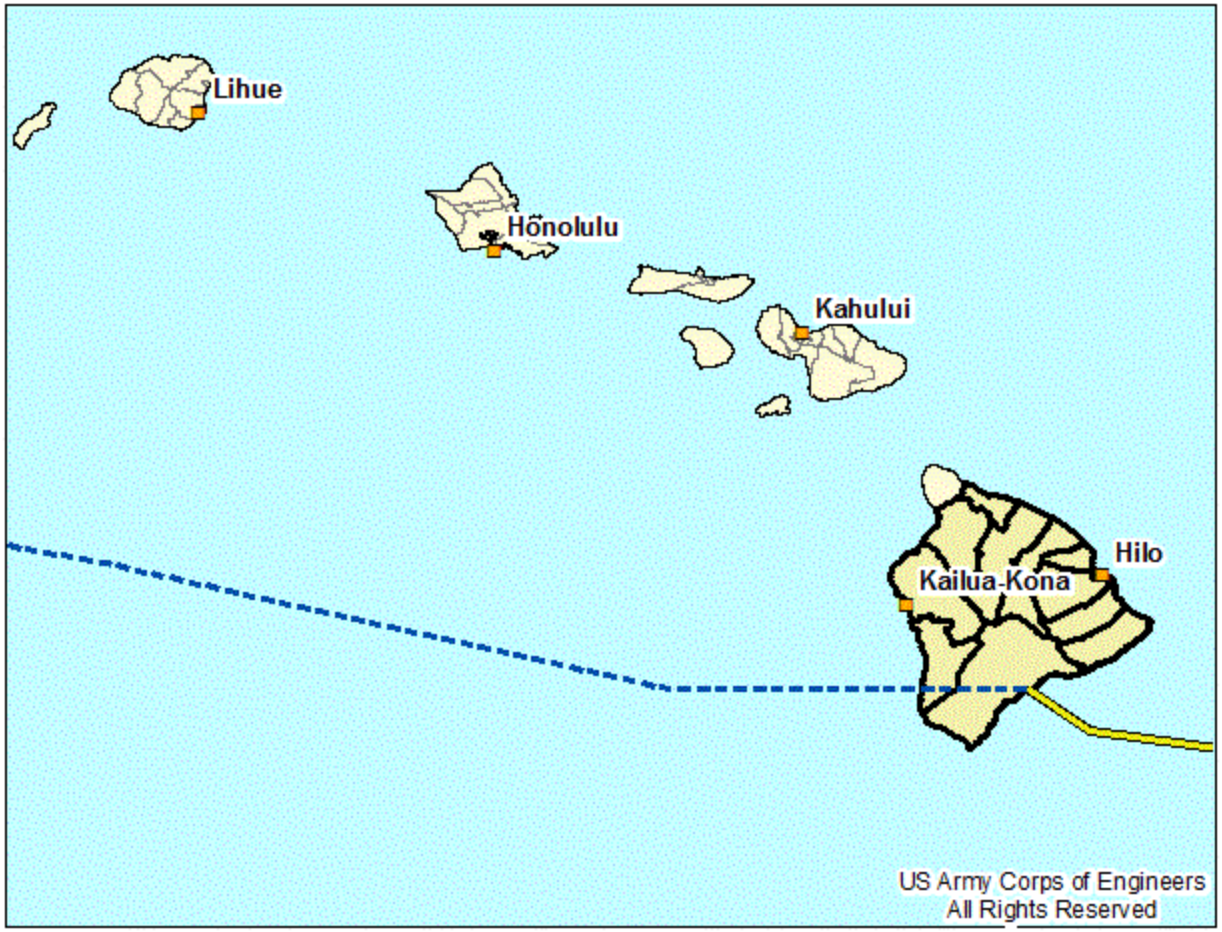
Sources:
HURREVAC
LRL-DEBRIS

Hurricane Iselle Temporary Roofing Model

Landfall Has Occurred

US Army Corps of Engineers

For Planning Purposes Only!



Post Landfall Temporary Roofing Model Results

HAWAII - 700

Model results per Geographic Unit on following page

This model is based on a Category 1 storm making landfall Near Hilo, HI.

Forecast Track
Historic Track

Temporary Roofing

- < 2,000 units
- 2,000 - 3,999 units
- 4,000 - 5,999 units
- 6,000 - 9,999 units
- > 10,000 units

Information provided on this page displays a Category 1 storm making landfall Near Hilo, HI. These projections are based on information from the NHC (0800 EDT 08/08/2014) forecast. Temporary roofing is based on 1.5% in CAT 1.

* Details about this model may be obtained at
http://www.usace.army.mil/Missions/EmergencyOperations/DisasterImpactModels.aspx
or contact the USACE Modeling Team at dll-ceiwr-esf3@usace.army.mil

Hurricane Iselle Roofing Model	
Generated By: CAM, USACE Modeling Team 1130 EDT 08/08/2014	
Sources: HURREVAC SimSuite	Page 6 of 23

US Army Corps of Engineers

Hurricane Iselle Temporary Roofing Model

Landfall Has Occurred

For Planning Purposes Only!

Island	House Units per Island	Geographic Unit	House Units per Geographic Unit
HAWAII		HAMAKUA - NORTH	< 100
		HAMAKUA - SOUTH	< 100
		KAU	< 100
		NORTH HILO	< 100
		NORTH KONA	200
		PUNA - NORTH	200
		PUNA - SOUTH	< 100
		SOUTH HILO - 1	300
		SOUTH HILO - 2	< 100
		SOUTH KOHALA	< 100
		SOUTH KONA	< 100
HAWAII	700		

Temporary roofing is based on 1.5% in CAT 1.

* Details about this model may be obtained at
http://www.usace.army.mil/Missions/EmergencyOperations/DisasterImpactModels.aspx
or contact the USACE Modeling Team at dll-ceiwr-esf3@usace.army.mil

Source: US Army Corps of Engineers, All Rights Reserved

Hurricane Iselle Roofing Model

Generated By:
CAM, USACE Modeling Team
1130 EDT 08/08/2014

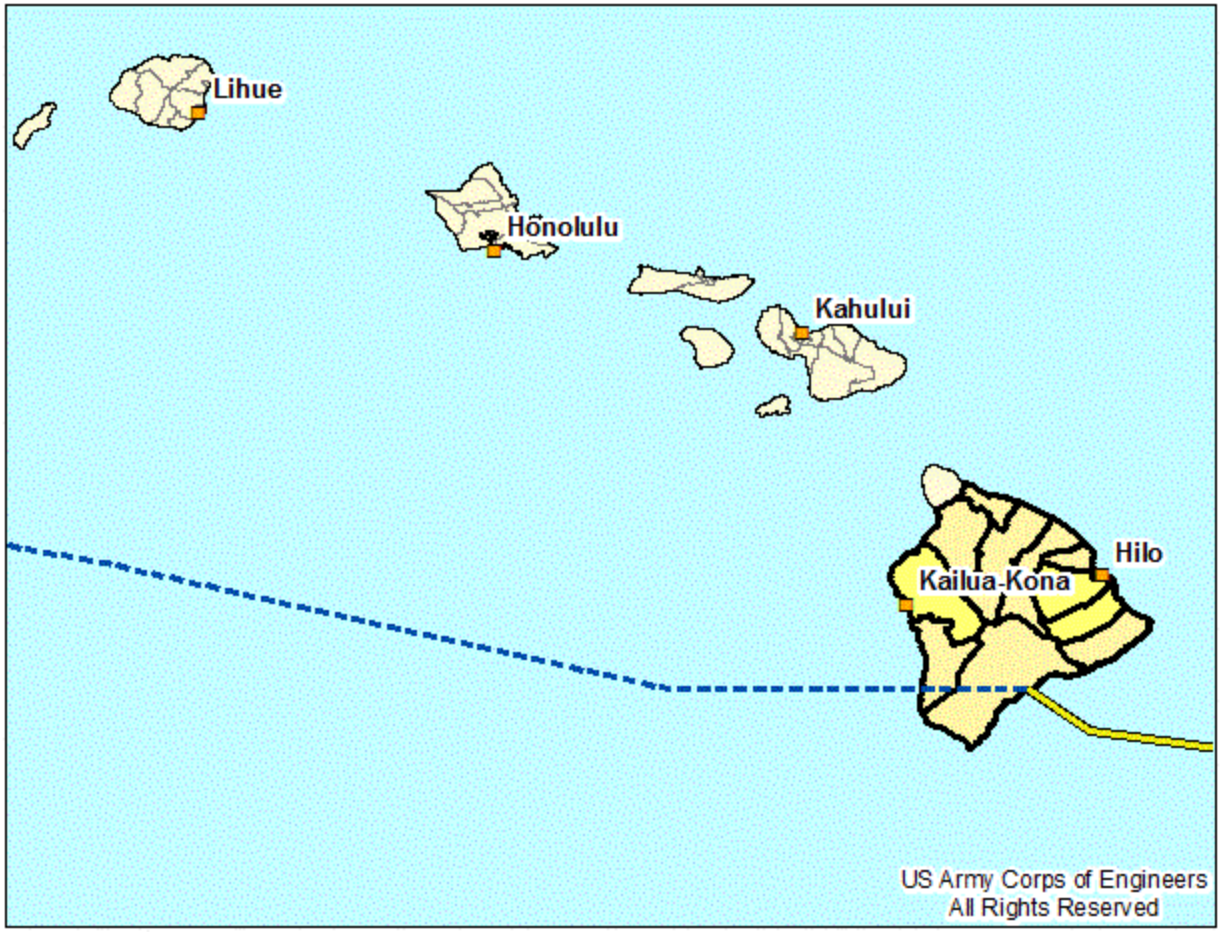
Sources:
HURREVAC
SimSuite

US Army Corps of Engineers

Hurricane Iselle Population Model

Landfall Has Occurred

For Planning Purposes Only!



Post Landfall Population Model Results

HAWAII - 177,000

Model results per Geographic Unit on following page

This model is based on a Category 1 storm making landfall Near Hilo, HI.

Forecast Track
Historic Track

Population

- < 25,000 persons
- 25,000 - 99,999 persons
- 100,000 - 174,999 persons
- 175,000 - 249,999 persons
- > 250,000 persons

Information provided on this page displays a Category 1 storm making landfall Near Hilo, HI. These projections are based on information from the NHC (0800 EDT 08/08/2014) forecast. The numbers of persons included in this model output are those that would be included within estimated hurricane force winds (Census 2010 values adjusted to July 2011 values).

* Details about this model may be obtained at
http://www.usace.army.mil/Missions/Emergency/Operations/DisasterImpactModels.aspx
or contact the USACE Modeling Team at dll-ceiwr-esf3@usace.army.mil

Hurricane Iselle Population Model

Generated By:
CAM, USACE Modeling Team
1130 EDT 08/08/2014

Sources:
HURREVAC
SimSuite

US Army Corps of Engineers

Hurricane Iselle Population Model

Landfall Has Occurred

For Planning Purposes Only!

Island	Population per Island	Geographic Unit	Population per Geographic Unit
HAWAII		HAMAKUA - NORTH	2,000
		HAMAKUA - SOUTH	3,000
		KAU	8,000
		NORTH HILO	3,000
		NORTH KONA	36,000
		PUNA - NORTH	29,000
		PUNA - SOUTH	11,000
		SOUTH HILO - 1	54,000
		SOUTH HILO - 2	7,000
		SOUTH KOHALA	13,000
		SOUTH KONA	11,000
HAWAII	177,000		

The number of persons estimated to be within the hurricane force winds comes from Census 2010 values adjusted to July 2011 values.

* Details about this model may be obtained at
http://www.usace.army.mil/Missions/EmergencyOperations/DisasterImpactModels.aspx
or contact the USACE Modeling Team at dll-ceiwr-esf3@usace.army.mil

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Hurricane Iselle Population Model

Generated By:
CAM, USACE Modeling Team
1130 EDT 08/08/2014

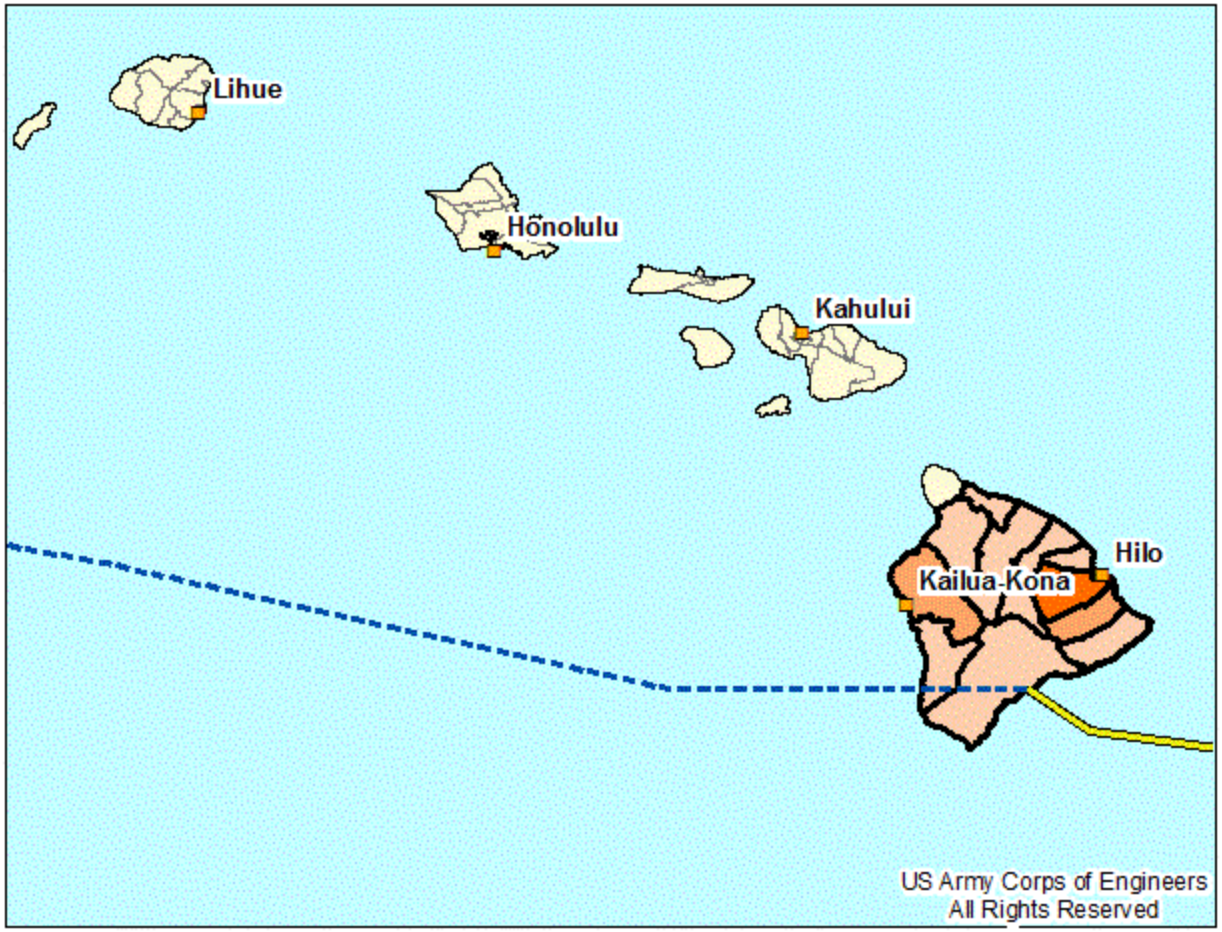
Sources:
HURREVAC
SimSuite

US Army Corps of Engineers

Hurricane Iselle Households Model

Landfall Has Occurred

For Planning Purposes Only!



Post Landfall Households Model Results

HAWAII - 64,000

Model results per Geographic Unit on following page

This model is based on a Category 1 storm making landfall Near Hilo, HI.

Forecast Track
Historic Track

Households

- < 7,500 households
- 7,500 - 14,999 households
- 15,000 - 24,999 households
- 25,000 - 49,999 households
- > 50000 households

Information provided on this page displays a Category 1 storm making landfall Near Hilo, HI. These projections are based on information from the NHC (0800 EDT 08/08/2014) forecast. The numbers of households included in this model output are those that would be included within estimated hurricane force winds (Census 2010 values adjusted to July 2011 values).

*Details about this model may be obtained at
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or contact the USACE Modeling Team at dll-ceiwr-esf3@usace.army.mil

Hurricane Iselle Households Model

Generated By:
CAM, USACE Modeling Team
@ 1130 EDT 08/08/2014

Sources:
HURREVAC
SimSuite

US Army Corps of Engineers

Hurricane Iselle Households Model

Landfall Has Occurred

For Planning Purposes Only!

Island	Households per Island	Geographic Unit	Households per Geographic Unit
HAWAII		HAMAKUA - NORTH	< 1,000
		HAMAKUA - SOUTH	< 1,000
		KAU	3,000
		NORTH HILO	< 1,000
		NORTH KONA	14,000
		PUNA - NORTH	11,000
		PUNA - SOUTH	4,000
		SOUTH HILO - 1	20,000
		SOUTH HILO - 2	3,000
		SOUTH KOHALA	5,000
		SOUTH KONA	4,000
HAWAII	64,000		

The number of households estimated to be within the hurricane force winds comes from Census 2010 values adjusted to July 2011 values.

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Hurricane Iselle Households Model

Generated By:
CAM, USACE Modeling Team
@ 1130 EDT 08/08/2014

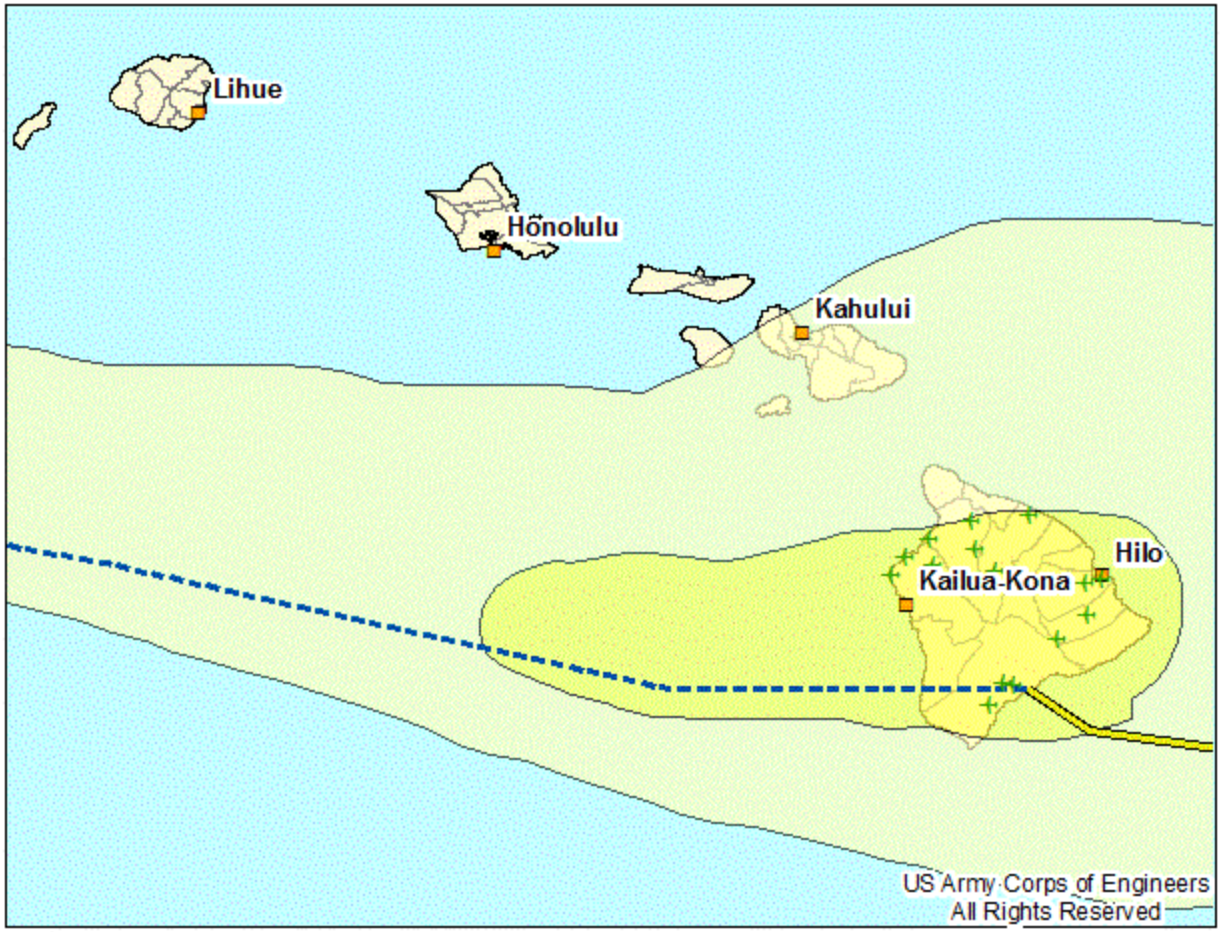
Sources:
HURREVAC
SimSuite

US Army Corps of Engineers

Hurricane Iselle Airports

Landfall Has Occurred

For Planning Purposes Only!



Most Probable Landfall Airports Inside Hurricane Force Winds

Hawaii - 15

Model results per Geographic Unit on following page

This model is based on a Category 1 storm making landfall Near Hilo, HI.

Information provided on this page displays a Category 1 storm making landfall near Hilo, HI. These projections are based on information from the NHC forecast.
The number of airports included in this output are those that would be included within estimated hurricane force winds (data source: HSIP Gold 2013).

*Details about this model may be obtained at
http://www.usace.army.mil/Missions/EmergencyOperations/DisasterImpactModels.aspx
or contact the USA CE Modeling Team at dll-ceiwr-esf3@usace.army.mil

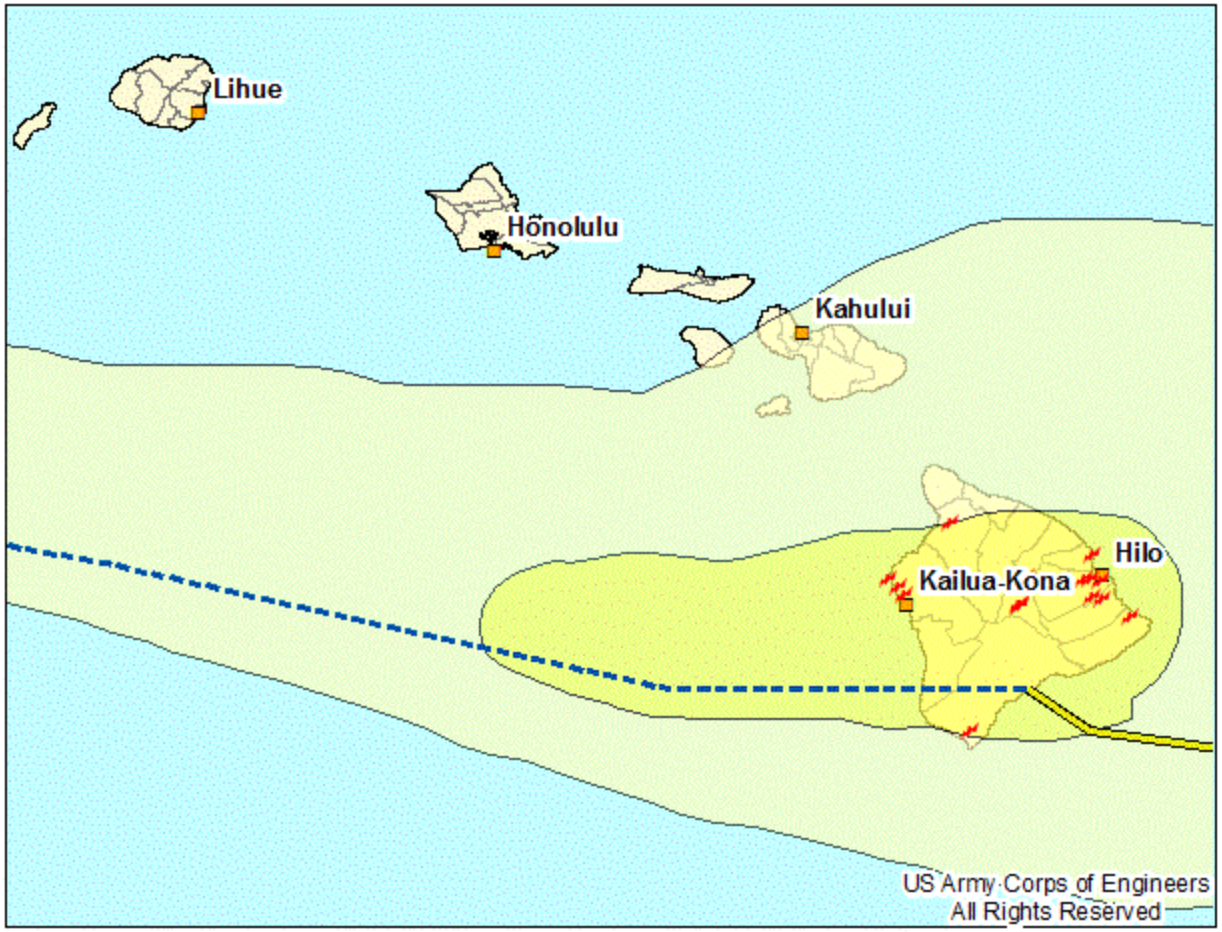
Hurricane Iselle Airports	
Generated By: CAM, USACE Modeling Team @ 1130 EDT 08/08/2014	
Sources: HURREVAC SimSuite	Page 12 of 23

US Army Corps of Engineers

Hurricane Iselle Electric Power Plants

Landfall Has Occurred

For Planning Purposes Only!



Most Probable Landfall Electric Power Plants Inside Hurricane Force Winds

Hawaii - 18

Model results per Geographic Unit on following page

This model is based on a Category 1 storm making landfall Near Hilo, HI.

Electric Power Plants
Forecast Track
Historic Track

Information provided on this page displays a Category 1 storm making landfall near Hilo, HI. These projections are based on information from the NHC forecast.
The number of airports included in this output are those that would be included within estimated hurricane force winds (data source: HSIP Gold 2013).

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or contact the USACE Modeling Team at dll-ceiwr-esf3@usace.army.mil

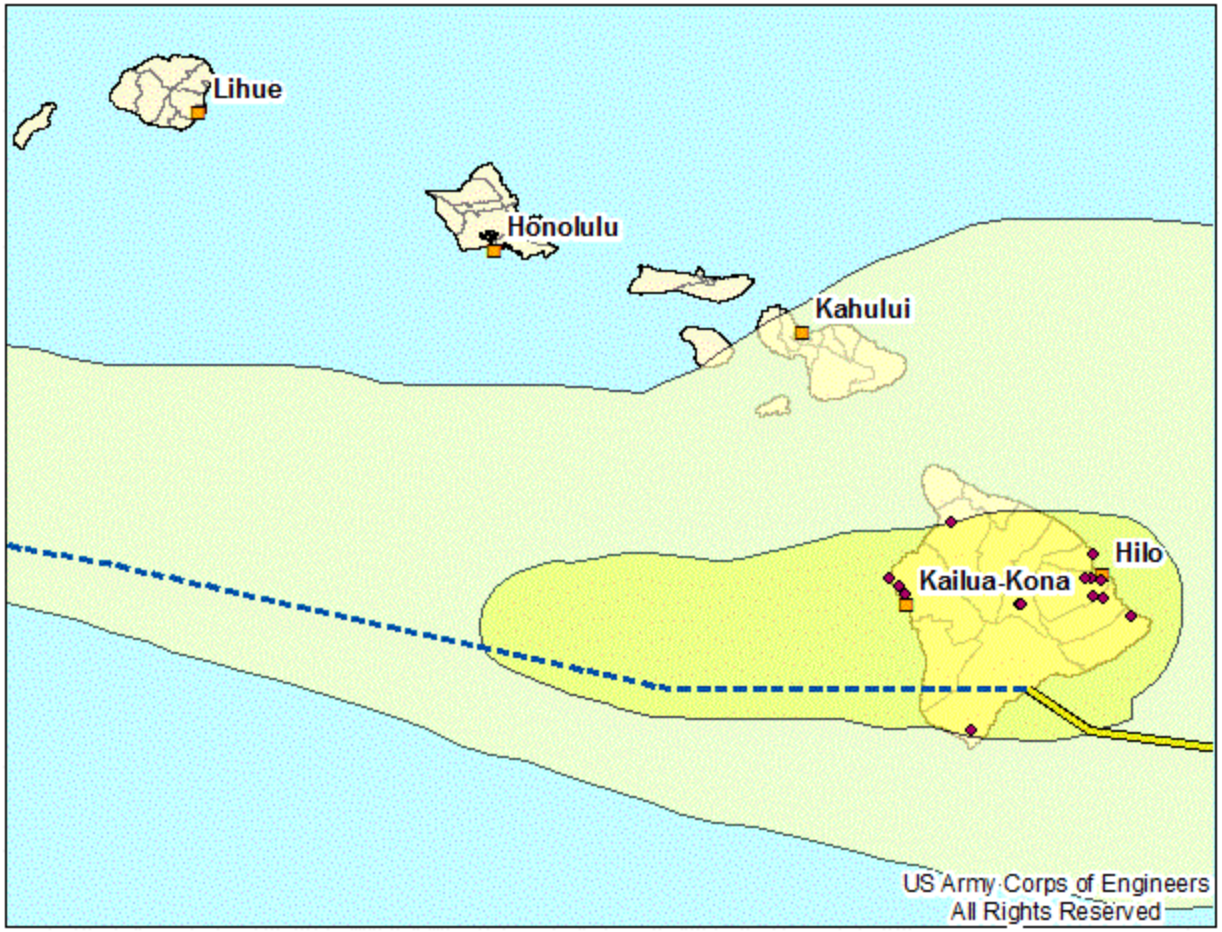
Hurricane Iselle Electric Power Plants	
Generated By: CAM, USACE Modeling Team @ 1130 EDT 08/08/2014	
Sources: HURREVAC SimSuite	Page 13 of 23

US Army Corps of Engineers

Hurricane Iselle Electric Substations

Landfall Has Occurred

For Planning Purposes Only!



Most Probable Landfall Electric Substations Inside Hurricane Force Winds

Hawaii - 18

Model results per Geographic Unit on following page

This model is based on a Category 1 storm making landfall Near Hilo, HI.

- Electric Substations
- Forecast Track
- Historic Track

Information provided on this page displays a Category 1 storm making landfall near Hilo, HI. These projections are based on information from the NHC forecast.
The number of airports included in this output are those that would be included within estimated hurricane force winds (data source: HSIP Gold 2013).

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or contact the USACE Modeling Team at dll-ceiwr-esf3@usace.army.mil

Hurricane Iselle Electric Substations	
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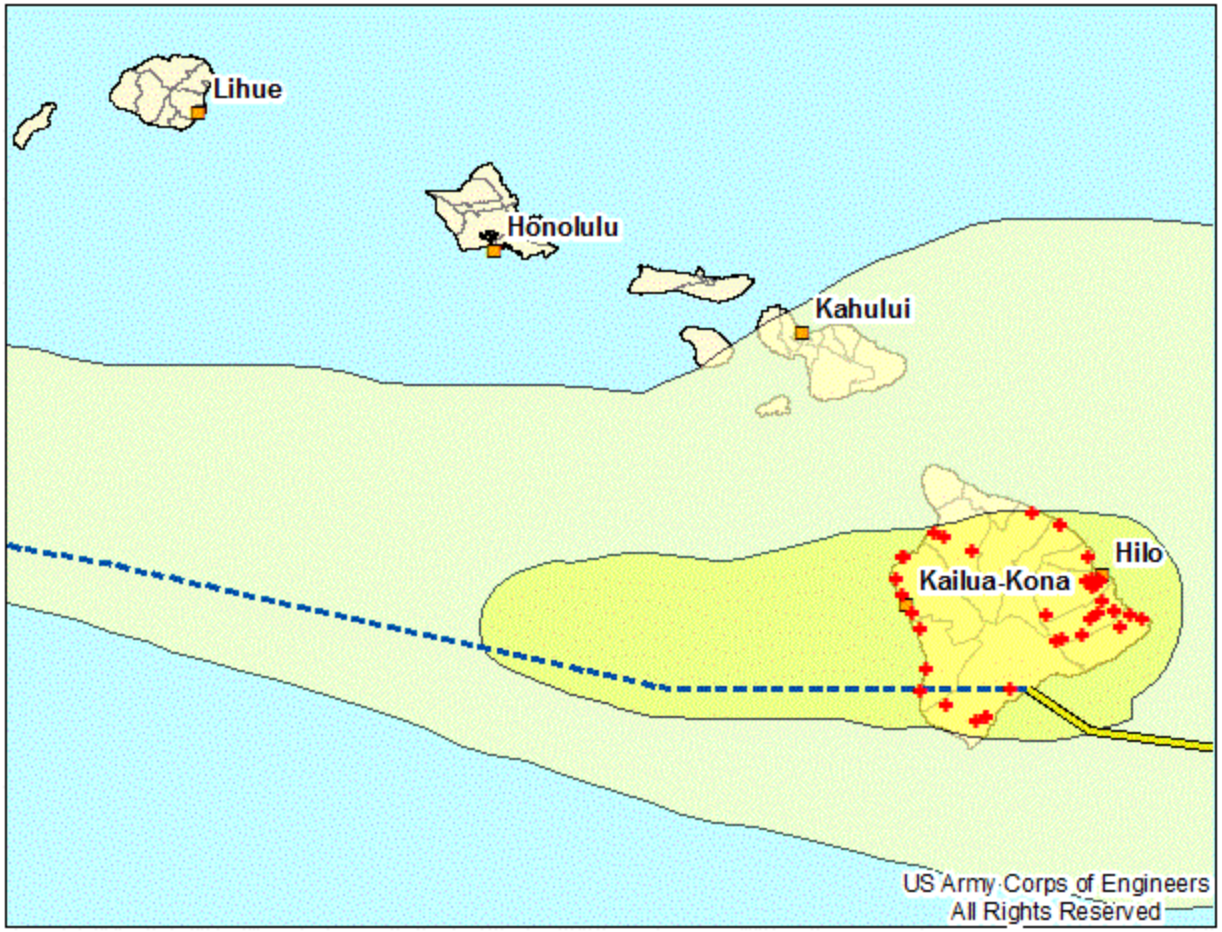
Sources: HURREVAC SimSuite	Page 14 of 23

US Army Corps of Engineers

Hurricane Iselle Fire Stations

Landfall Has Occurred

For Planning Purposes Only!



Most Probable Landfall Fire Stations Inside Hurricane Force Winds

Hawaii - 38

Model results per Geographic Unit on following page

This model is based on a Category 1 storm making landfall Near Hilo, HI.

Fire Stations
Forecast Track
Historic Track

Information provided on this page displays a Category 1 storm making landfall near Hilo, HI. These projections are based on information from the NHC forecast.
The number of airports included in this output are those that would be included within estimated hurricane force winds (data source: HSIP Gold 2013).

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or contact the USACE Modeling Team at dll-ceiwr-esf3@usace.army.mil

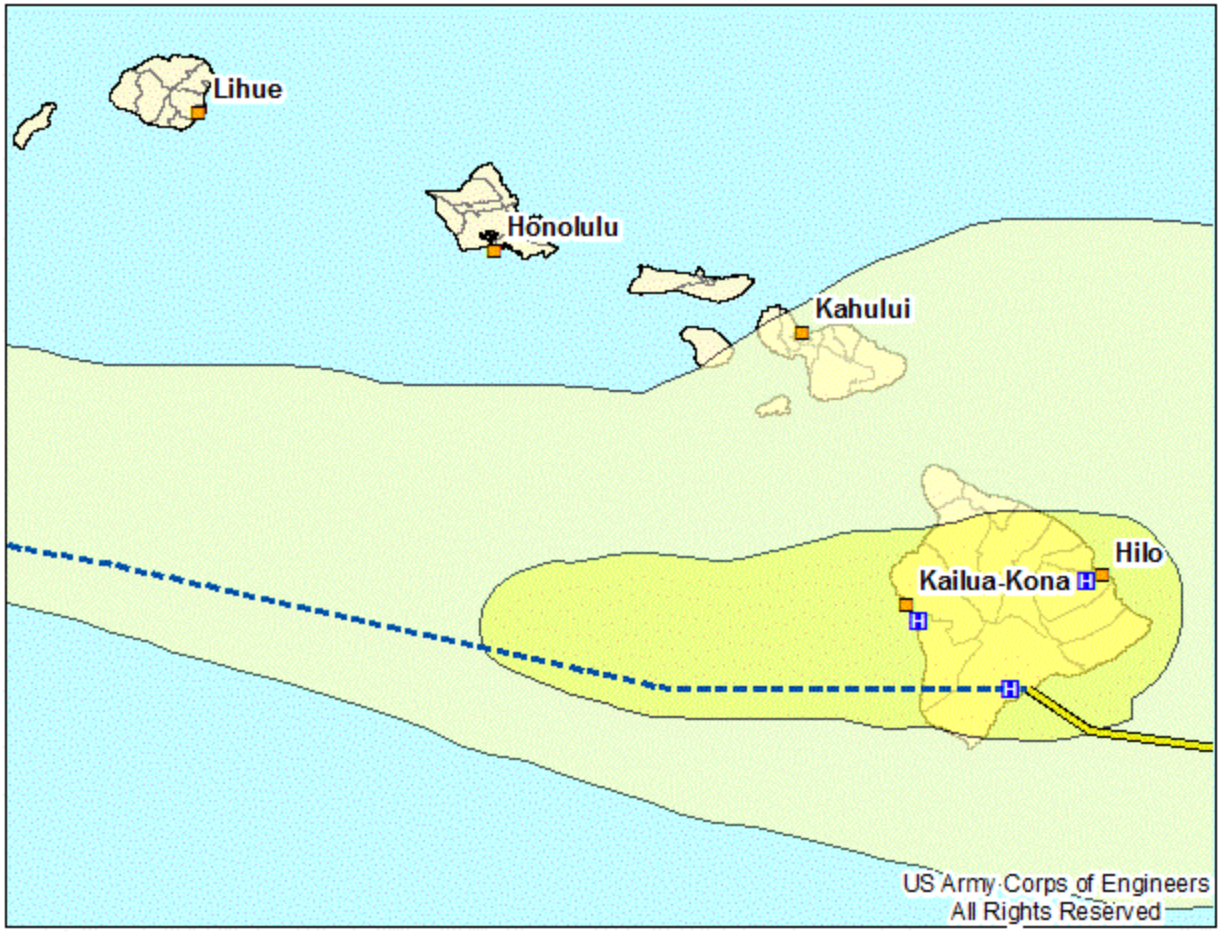
Hurricane Iselle Fire Stations	
Generated By: CAM, USACE Modeling Team @ 1130 EDT 08/08/2014	
Sources: HURREVAC SimSuite	

US Army Corps of Engineers

Hurricane Iselle Hospitals

Landfall Has Occurred

For Planning Purposes Only!



Most Probable Landfall Hospitals Inside Hurricane Force Winds

Hawaii - 3

Model results per Geographic Unit on following page

This model is based on a Category 1 storm making landfall Near Hilo, HI.

H Hospitals
Forecast Track
Historic Track

Information provided on this page displays a Category 1 storm making landfall near Hilo, HI. These projections are based on information from the NHC forecast.
The number of airports included in this output are those that would be included within estimated hurricane force winds (data source: HSIP Gold 2013).

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or contact the USACE Modeling Team at dll-ceiwr-esf3@usace.army.mil

Hurricane Iselle Hospitals	
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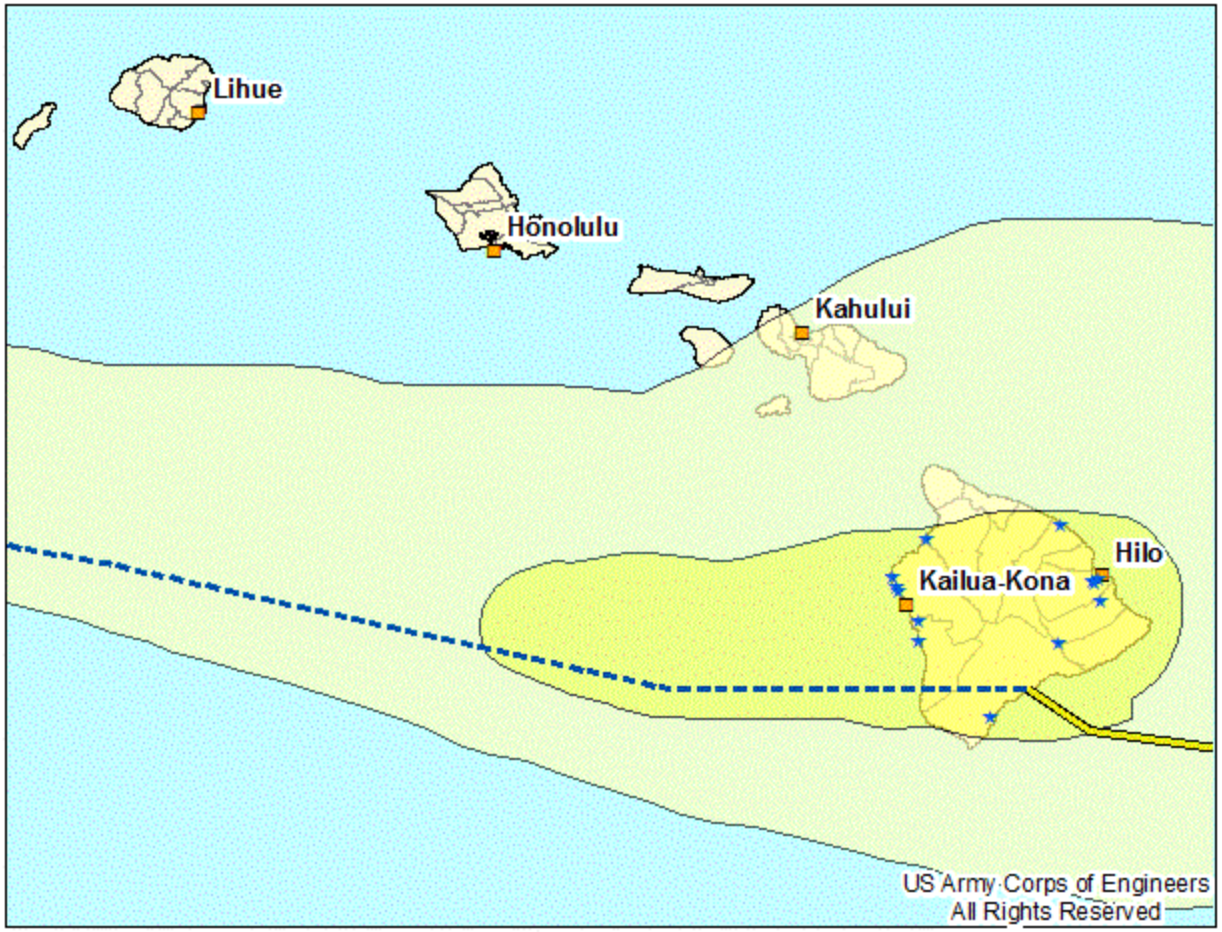
Sources: HURREVAC SimSuite	Page 16 of 23

US Army Corps of Engineers

Hurricane Iselle Law Enforcement

Landfall Has Occurred

For Planning Purposes Only!



Most Probable Landfall Law Enforcement Inside Hurricane Force Winds

Hawaii - 13

Model results per Geographic Unit on following page

This model is based on a Category 1 storm making landfall Near Hilo, HI.

★ Law Enforcement
Forecast Track
Historic Track

Information provided on this page displays a Category 1 storm making landfall near Hilo, HI. These projections are based on information from the NHC forecast.
The number of airports included in this output are those that would be included within estimated hurricane force winds (data source: HSIP Gold 2013).

*Details about this model may be obtained at
http://www.usace.army.mil/Missions/EmergencyOperations/DisasterImpactModels.aspx
or contact the USA CE Modeling Team at dll-ceiwr-esf3@usace.army.mil

Hurricane Iselle Law Enforcement	
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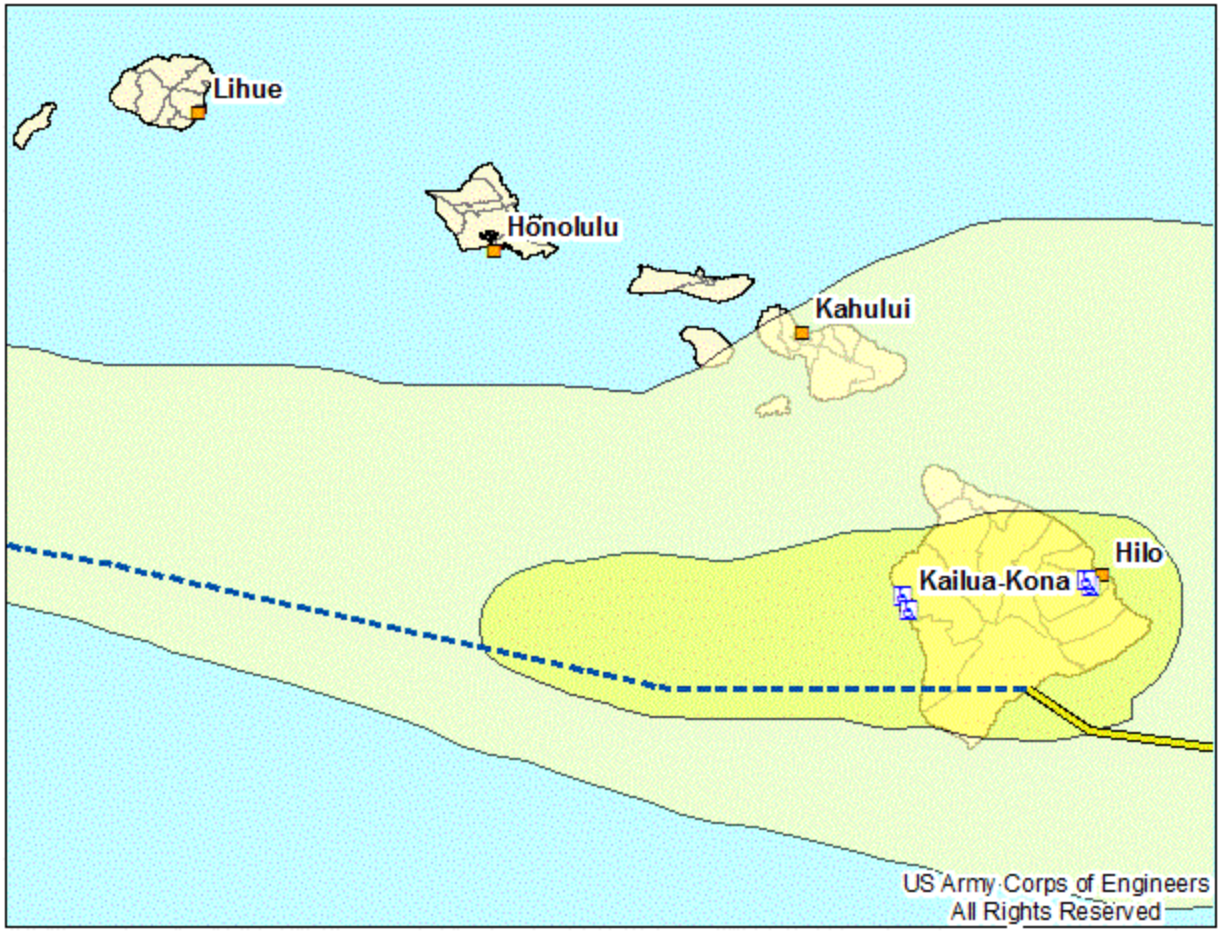
Sources: HURREVAC SimSuite	Page 17 of 23

US Army Corps of Engineers

Hurricane Iselle Nursing Homes

Landfall Has Occurred

For Planning Purposes Only!



Most Probable Landfall Nursing Homes Inside Hurricane Force Winds

Hawaii - 6

Model results per Geographic Unit on following page

This model is based on a Category 1 storm making landfall Near Hilo, HI.

Nursing Homes
Forecast Track
Historic Track

Information provided on this page displays a Category 1 storm making landfall near Hilo, HI. These projections are based on information from the NHC forecast.
The number of airports included in this output are those that would be included within estimated hurricane force winds (data source: HSIP Gold 2013).

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or contact the USACE Modeling Team at dll-ceiwr-esf3@usace.army.mil

Hurricane Iselle Nursing Homes	
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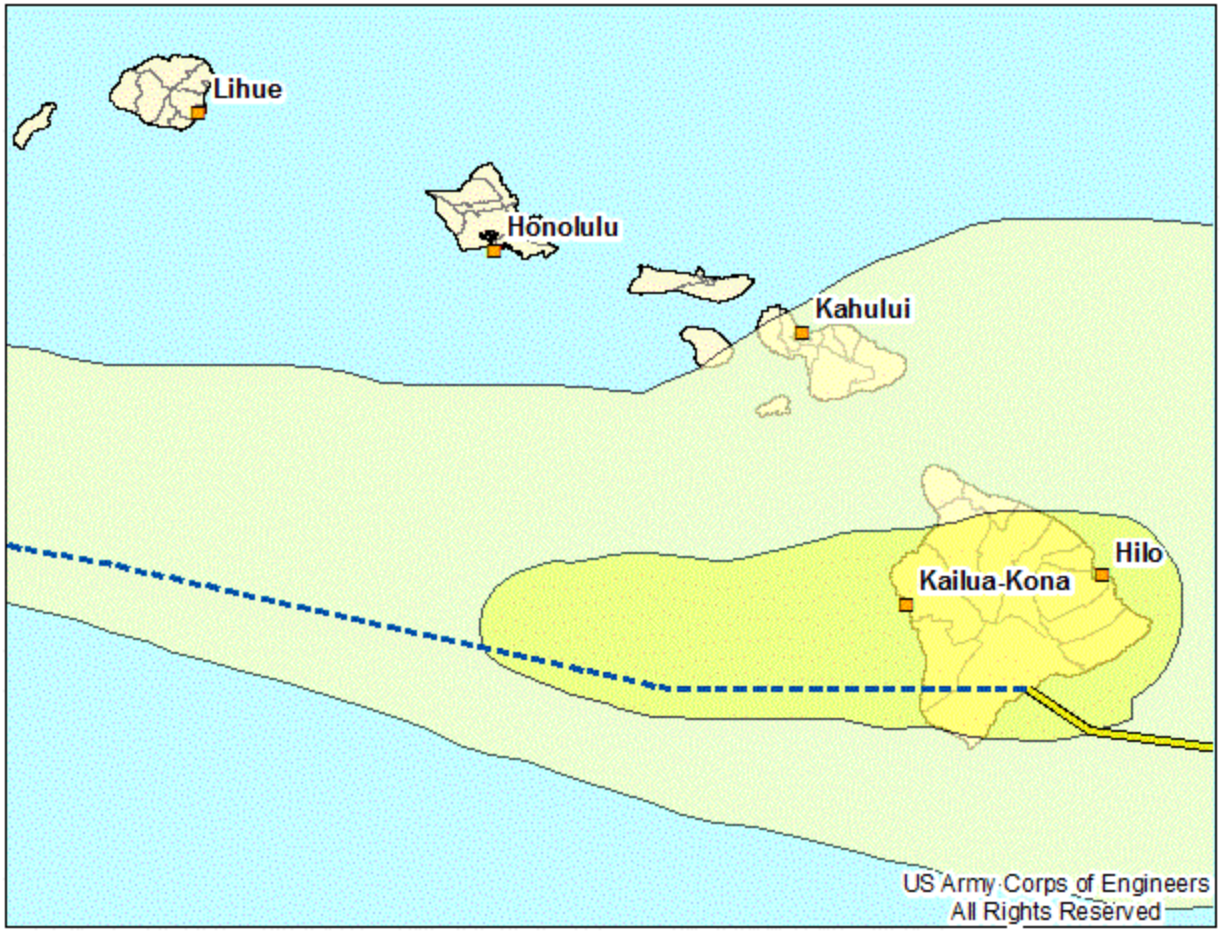
Sources: HURREVAC SimSuite	Page 18 of 23

US Army Corps of Engineers

Hurricane Iselle Potable Water

Landfall Has Occurred

For Planning Purposes Only!



Most Probable Landfall Potable Water Inside Hurricane Force Winds

Model results per Geographic Unit on following page

This model is based on a Category 1 storm making landfall Near Hilo, HI.

Potable Water
Forecast Track
Historic Track

Information provided on this page displays a Category 1 storm making landfall near Hilo, HI. These projections are based on information from the NHC forecast.
The number of airports included in this output are those that would be included within estimated hurricane force winds (data source: HSIP Gold 2013).

*Details about this model may be obtained at
http://www.usace.army.mil/Missions/EmergencyOperations/DisasterImpactModels.aspx
or contact the USACE Modeling Team at dll-ceiwr-esf3@usace.army.mil

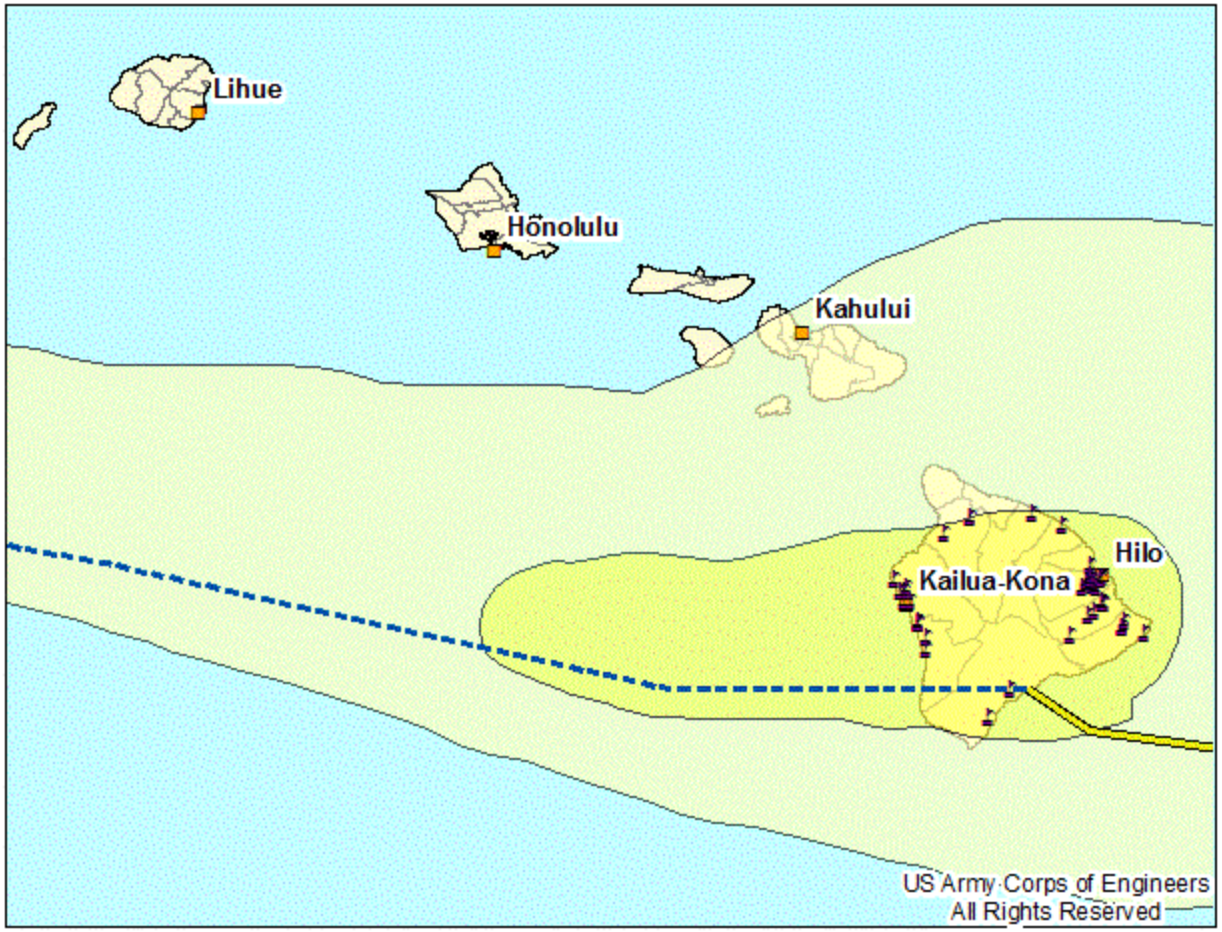
Hurricane Iselle Potable Water	
Generated By: CAM, USACE Modeling Team @ 1130 EDT 08/08/2014	
Sources: HURREVAC SimSuite	Page 19 of 23

US Army Corps of Engineers

Hurricane Iselle Schools

Landfall Has Occurred

For Planning Purposes Only!



Most Probable Landfall Schools Inside Hurricane Force Winds

Hawaii - 49

Model results per Geographic Unit on following page

This model is based on a Category 1 storm making landfall Near Hilo, HI.

Schools
Forecast Track
Historic Track

Information provided on this page displays a Category 1 storm making landfall near Hilo, HI. These projections are based on information from the NHC forecast.
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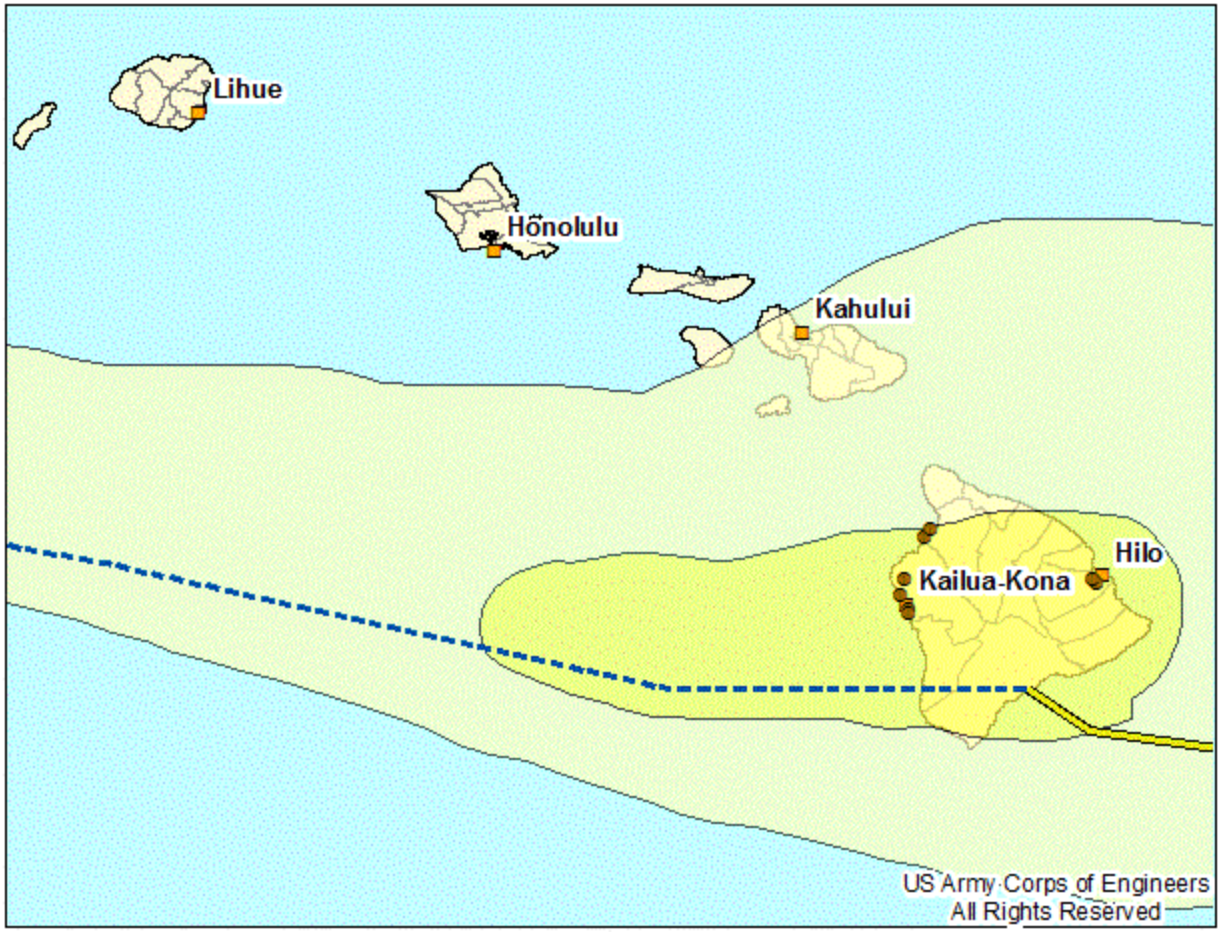
Hurricane Iselle Schools	
Generated By: CAM, USACE Modeling Team @ 1130 EDT 08/08/2014	
Sources: HURREVAC SimSuite	

Hurricane Iselle Sewage Treatment Plants

Landfall Has Occurred

US Army Corps of Engineers

For Planning Purposes Only!



Most Probable Landfall Sewage Treatment Plants Inside Hurricane Force Winds

Hawaii - 8

Model results per Geographic Unit on following page

This model is based on a Category 1 storm making landfall Near Hilo, HI.

- Sewage Treatment Plants
- Forecast Track
- Historic Track

Information provided on this page displays a Category 1 storm making landfall near Hilo, HI. These projections are based on information from the NHC forecast.
The number of airports included in this output are those that would be included within estimated hurricane force winds (data source: HSIP Gold 2013).

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Hurricane Iselle Sewage Treatment Plants

Generated By:
CAM, USACE Modeling Team
@ 1130 EDT 08/08/2014

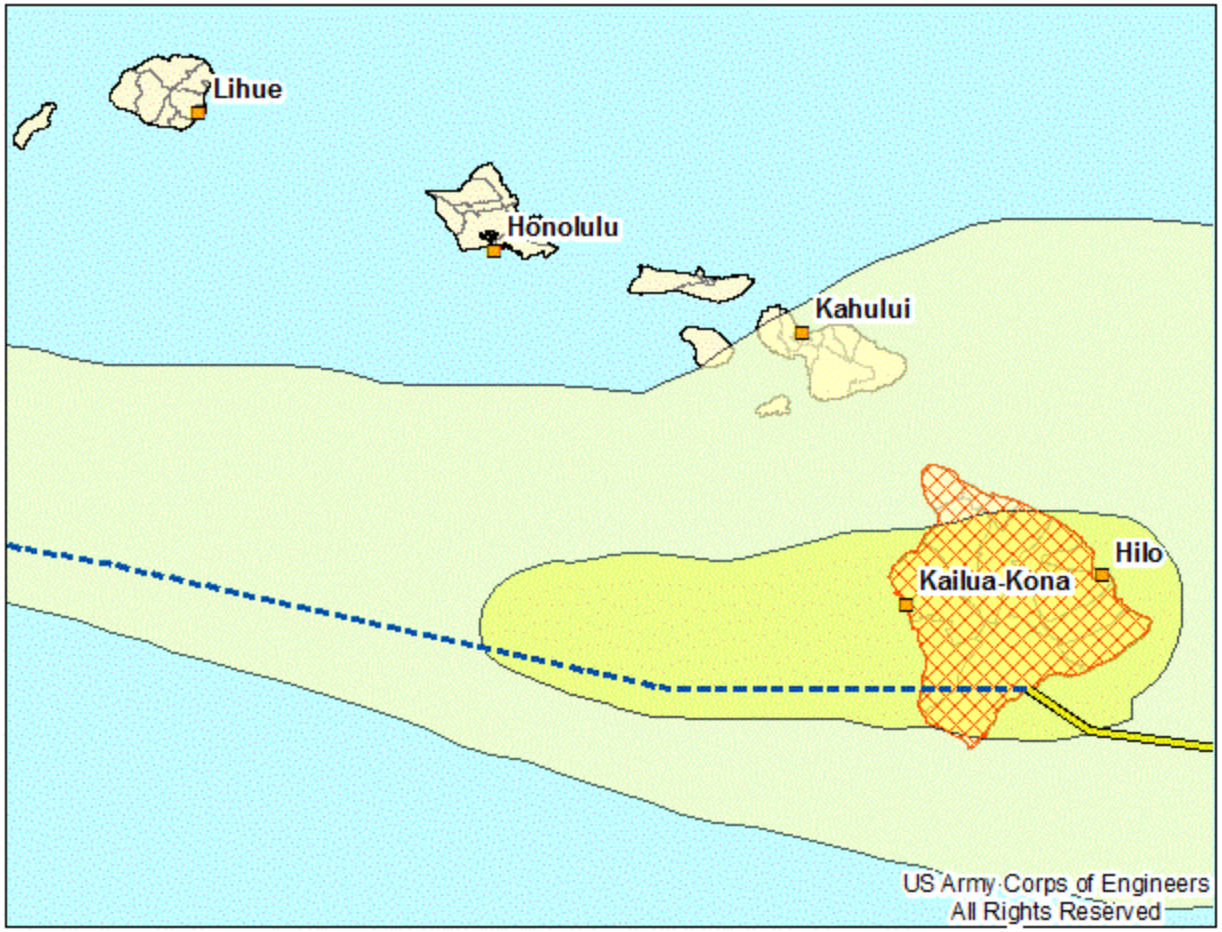
Sources:
HURREVAC
SimSuite

US Army Corps of Engineers

Hurricane Iselle Electric Service Areas

Landfall Has Occurred

For Planning Purposes Only!



Most Probable Landfall Electric Service Areas Inside Hurricane Force Winds

Hawaii - 1

Model results per Geographic Unit on following page

This model is based on a Category 1 storm making landfall Near Hilo, HI.

Information provided on this page displays a Category 1 storm making landfall near Hilo, HI. These projections are based on information from the NHC forecast.
The number of airports included in this output are those that would be included within estimated hurricane force winds (data source: HSIP Gold 2013).

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Hurricane Iselle Electric Service Areas

Generated By:
CAM, USACE Modeling Team
@ 1130 EDT 08/08/2014

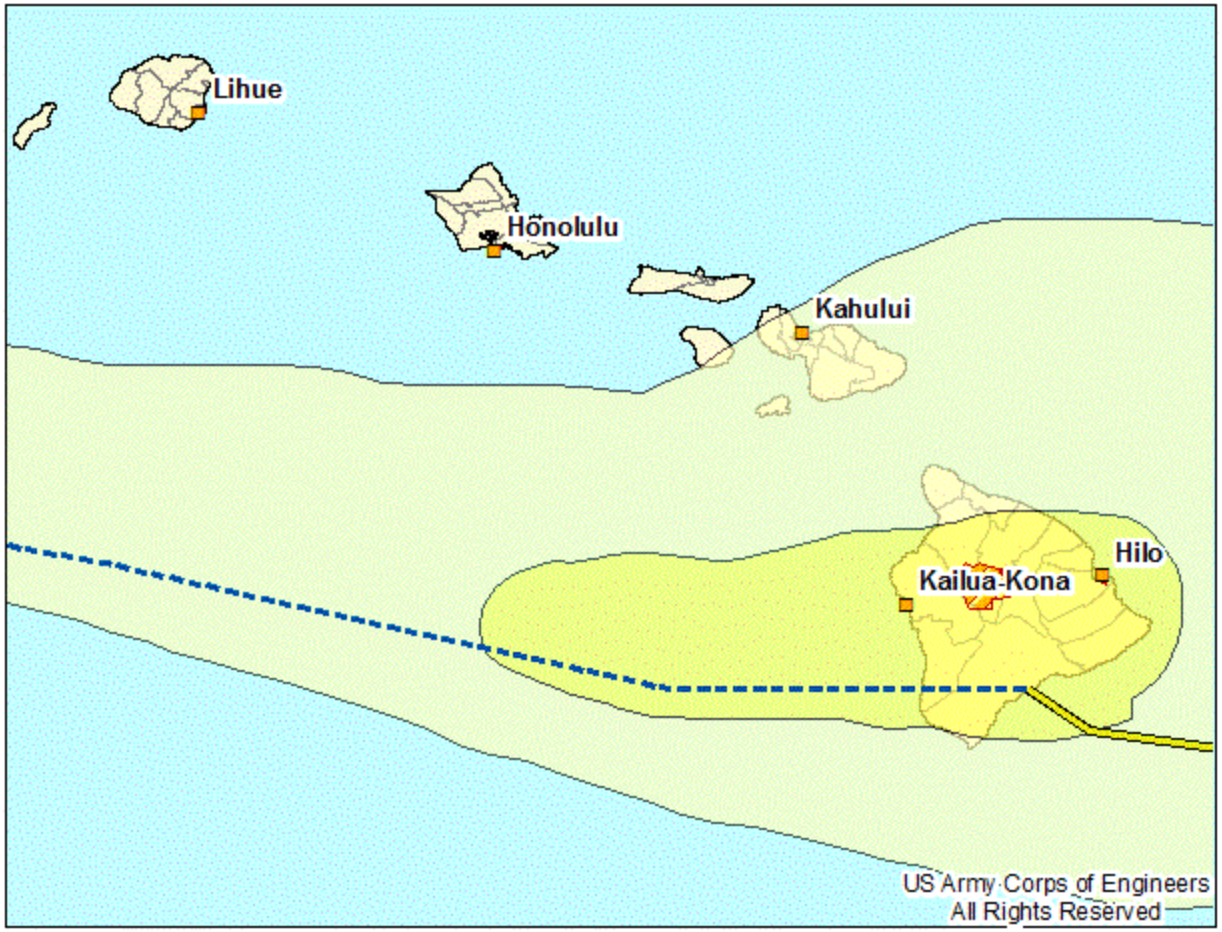
Sources:
HURREVAC
SimSuite

US Army Corps of Engineers

Hurricane Iselle Military Bases

Landfall Has Occurred

For Planning Purposes Only!



Most Probable Landfall Military Bases Inside Hurricane Force Winds

Hawaii - 2

Model results per Geographic Unit on following page

This model is based on a Category 1 storm making landfall Near Hilo, HI.

Forecast Track
Historic Track
Military Bases

Information provided on this page displays a Category 1 storm making landfall near Hilo, HI. These projections are based on information from the NHC forecast.
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Hurricane Iselle Military Bases	
Generated By: CAM, USACE Modeling Team @ 1130 EDT 08/08/2014	
Sources: HURREVAC SimSuite	Page 23 of 23